

Technical Information

CK7576

SUBMINIATURE TRIODE

The CK7576 is a heater-cathode type high-Mu triode of subminiature construction especially designed for grounded grid RF power amplifier service in the VHF and UHF regions. Excellent isolation between input and output circuits coupled with high transconductance, high amplification factor, and good power handling ability make it suitable for a wide variety of applications. The flexible terminal leads may be soldered or welded directly to the terminal of circuit components without the use of sockets. Standard 8-pin subminiature sockets may be used by cutting the leads to a suitable length.

ELECTRICAL DATA

DIRECT INTERELECTRODE CAPACITANCES: (μmf)

	With Shields (Note 1)	Without Shield
Plate to Cathode (P to K)	0.15 max.	0.2 max
Output (Grounded Grid) (P to G + H)	5.3	3.5
Cathode to Heater (K to H)	5.8	5.8
Input (Grounded Grid) (K to G + H)	12	12
Grid to Cathode + Heater (G to K + H)	7.9	6.3
Cathode to Grid (H + P Gnd.)	6.0	5.9

RATINGS—ABSOLUTE MAXIMUM VALUES:

Heater Voltage	6.3 \pm 5% volts
Plate Voltage	250 volts
DC Grid Voltage	-55 volts
Cathode Current	50 mAdc
Grid Current	10 mAdc
Grid Dissipation	0.2 watts
Plate Dissipation	4.1 watts
Peak Heater-Cathode Voltage	\pm 90 volts
Grid Circuit Resistance	
class A	0.1 Meg
fixed bias class C	0.01 Meg
cathode bias class C	0.05 Meg
Peak Positive RF Grid Voltage	10 volts

CHARACTERISTICS AND TYPICAL OPERATION CLASS A:

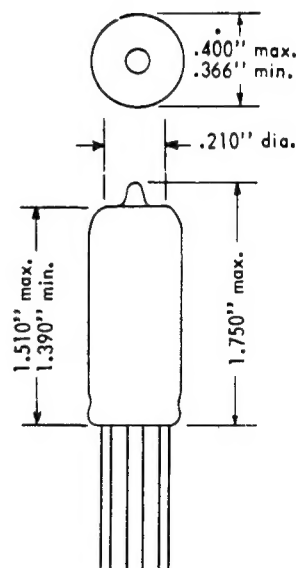
Filament Voltage	6.3 \pm 5% volts
Heater Current	450 mA
Plate Voltage	200 volts
Grid Voltage	0
Cathode Resistance	150 ohms
Plate Current	15.5 mAdc
Transconductance	10,700 μmhos
Amplification Factor	46
Grid Bias for $I_b = 100 \mu\text{Adc}$ (Approx.)	-6.0 volts

- Note 1 Shield tied to grid.

MECHANICAL DATA

ENVELOPE..... T-3 Glass
BASE... Subminiature Button 8-Pin
(0.017" tin-plated flexible leads
Length: 1.5)
MOUNTING POSITION:..... Any

PHYSICAL DIMENSIONS

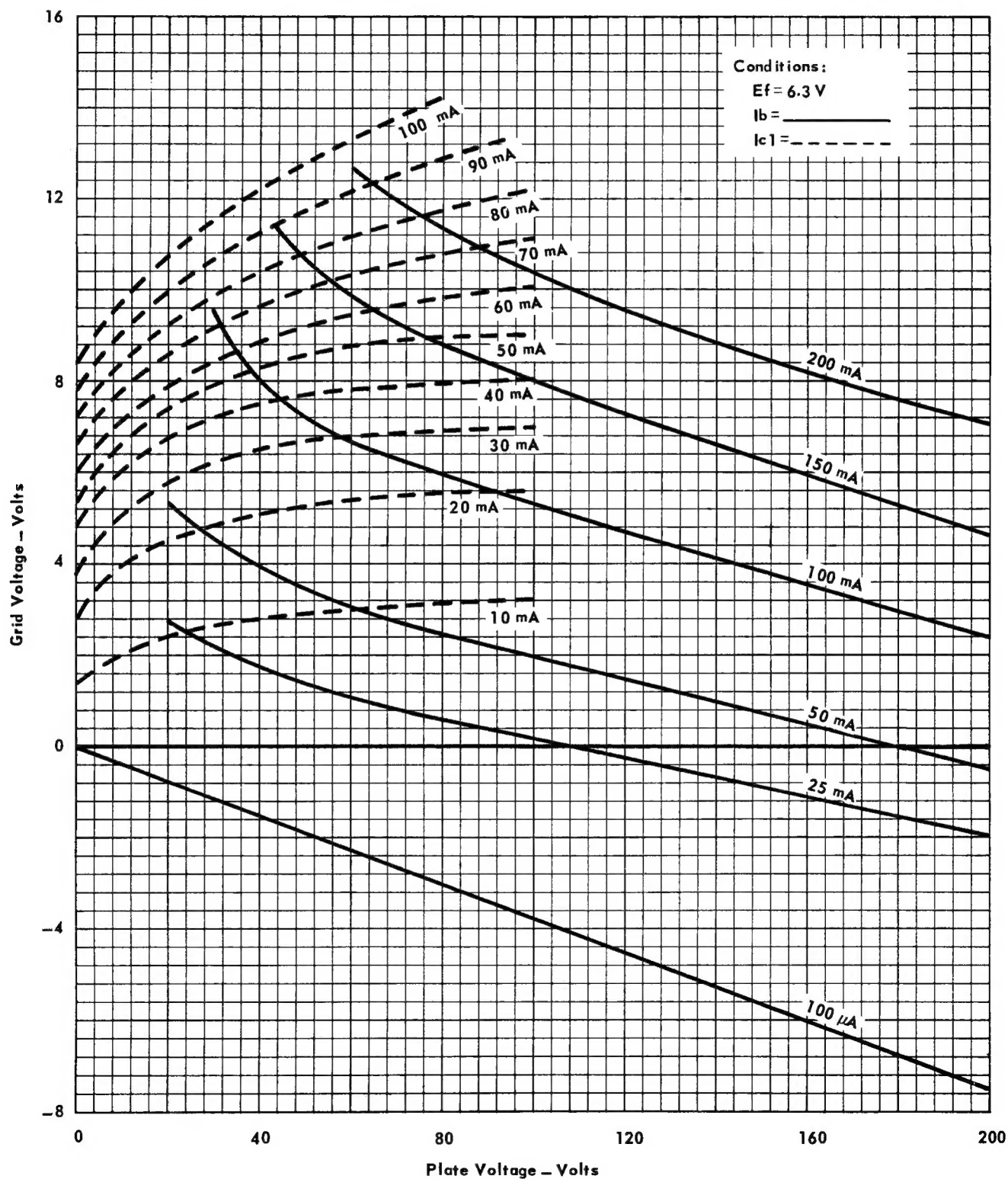


TERMINAL CONNECTIONS:

- Lead 1 Heater
- Lead 2 Grid
- Lead 3 Plate
- Lead 4 Grid
- Lead 5 Grid
- Lead 6 Cathode
- Lead 7 Grid
- Lead 8 Heater

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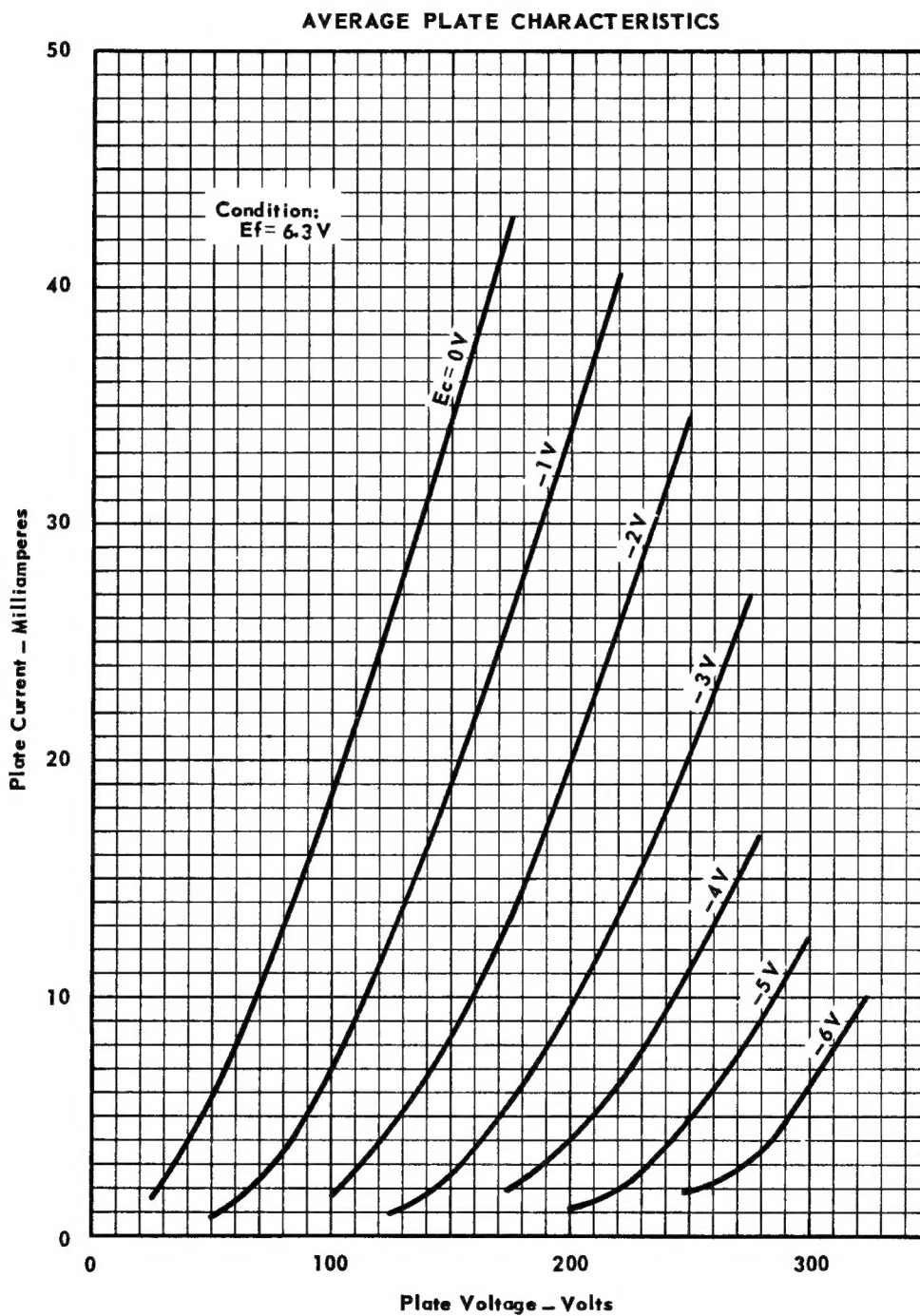
AVERAGE CHARACTERISTICS



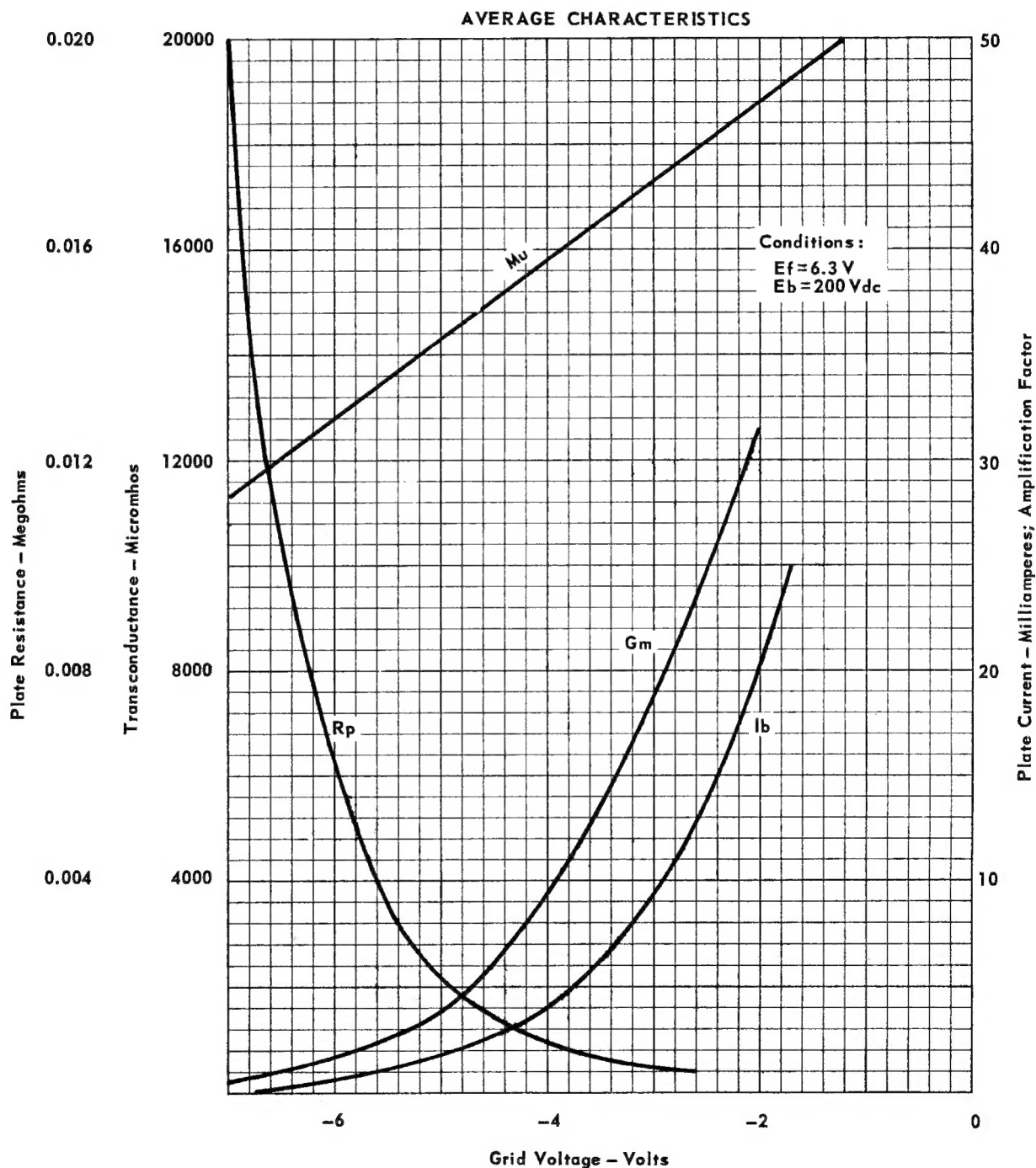


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AVERAGE CHARACTERISTICS

